

Chrysler-CIP-2014-D

- MODEL : HW Ver 62
- DATE : 2021.08.23



GU ELECTRONIC

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1. Main Spec.

1. Input Spec. (MULTI VIDEO INTERFACE)

- 1 x Digital RGB Input (Navigation System source)
- 1 x Analog RGB Input (Navigation System output)
- 1 x CVBS(REAR CAMERA) Input. (Rear camera source)
- 1 x CVBS(FRONT CAMERA) Input. (Front camera source)

2. Output Spec.

- 1 x Virtual Analog Touch (Navigation System source)
- 1 x Uart Digital Touch (Navigation System source)
- 1 x LVDS Output (LCD Operation)

3. Power Spec.

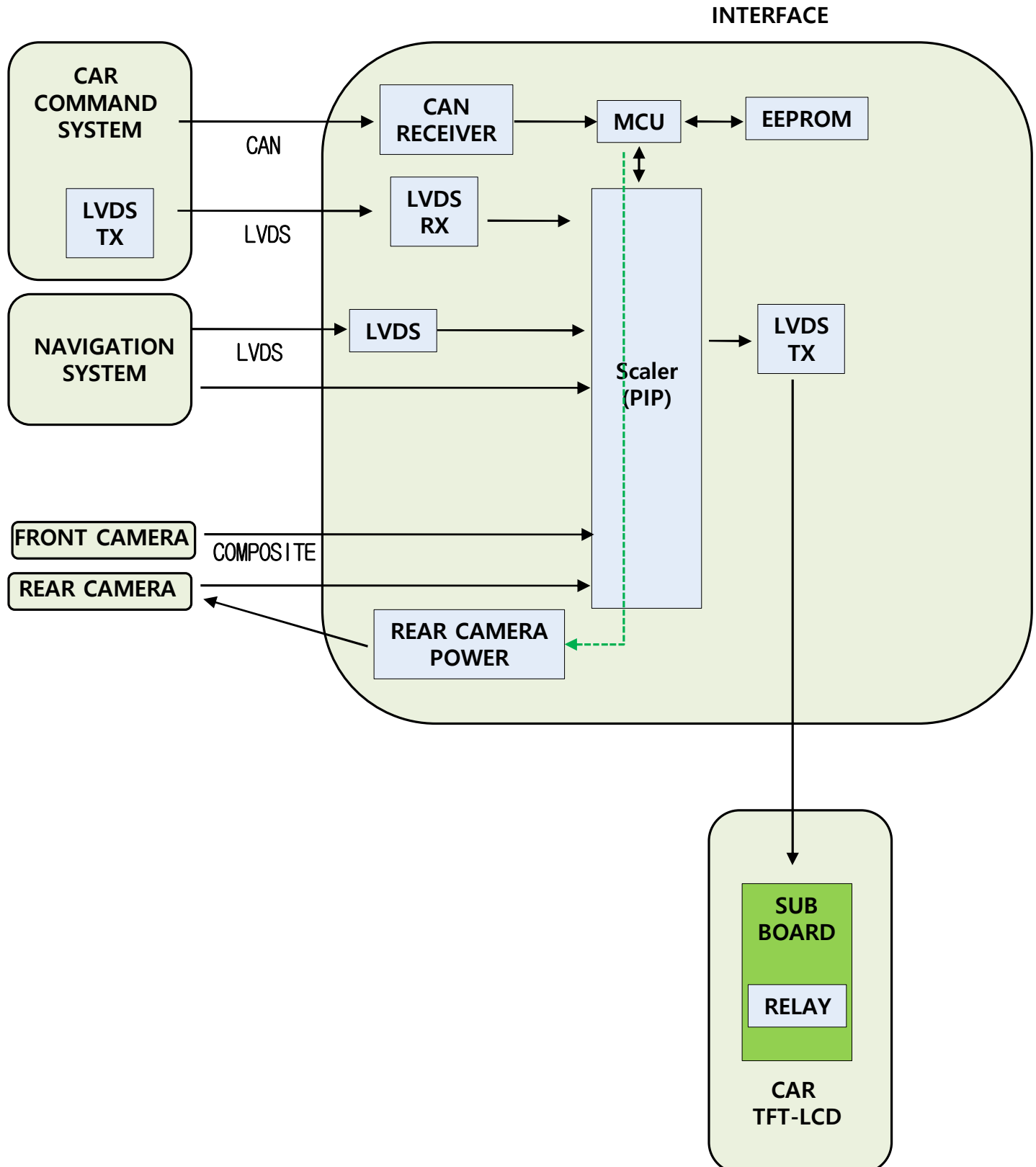
- Input Power : 8VDC ~ 24VDC
- Consumption Power : 12Watt, Max

4. Switch Input mode

- Possible to select CAR model while switching mode by DIP S/W
- By button on the Commander in the car via CAN



2. Block Diagram



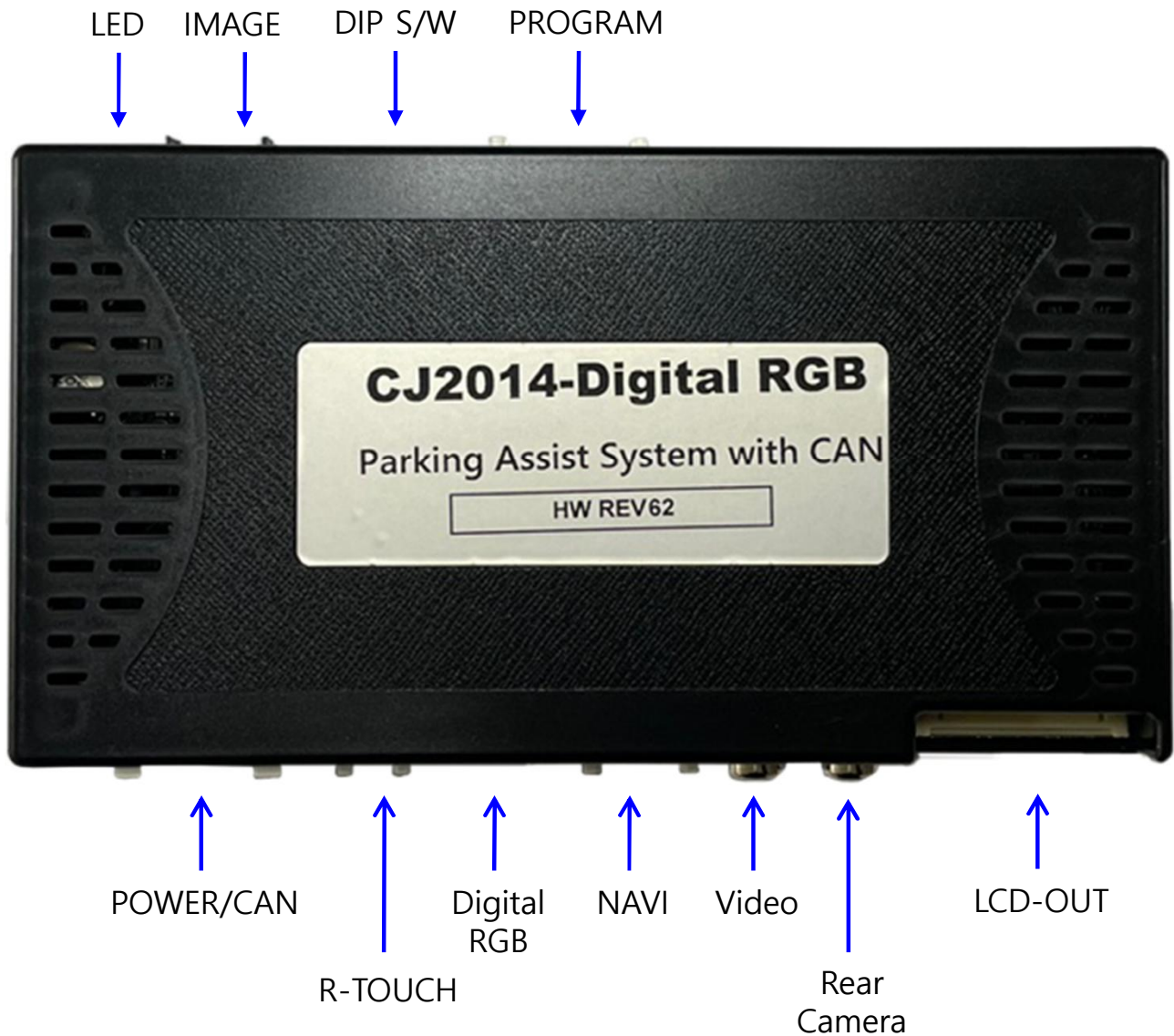
3. Dimension

159mm * 83mm * 22mm

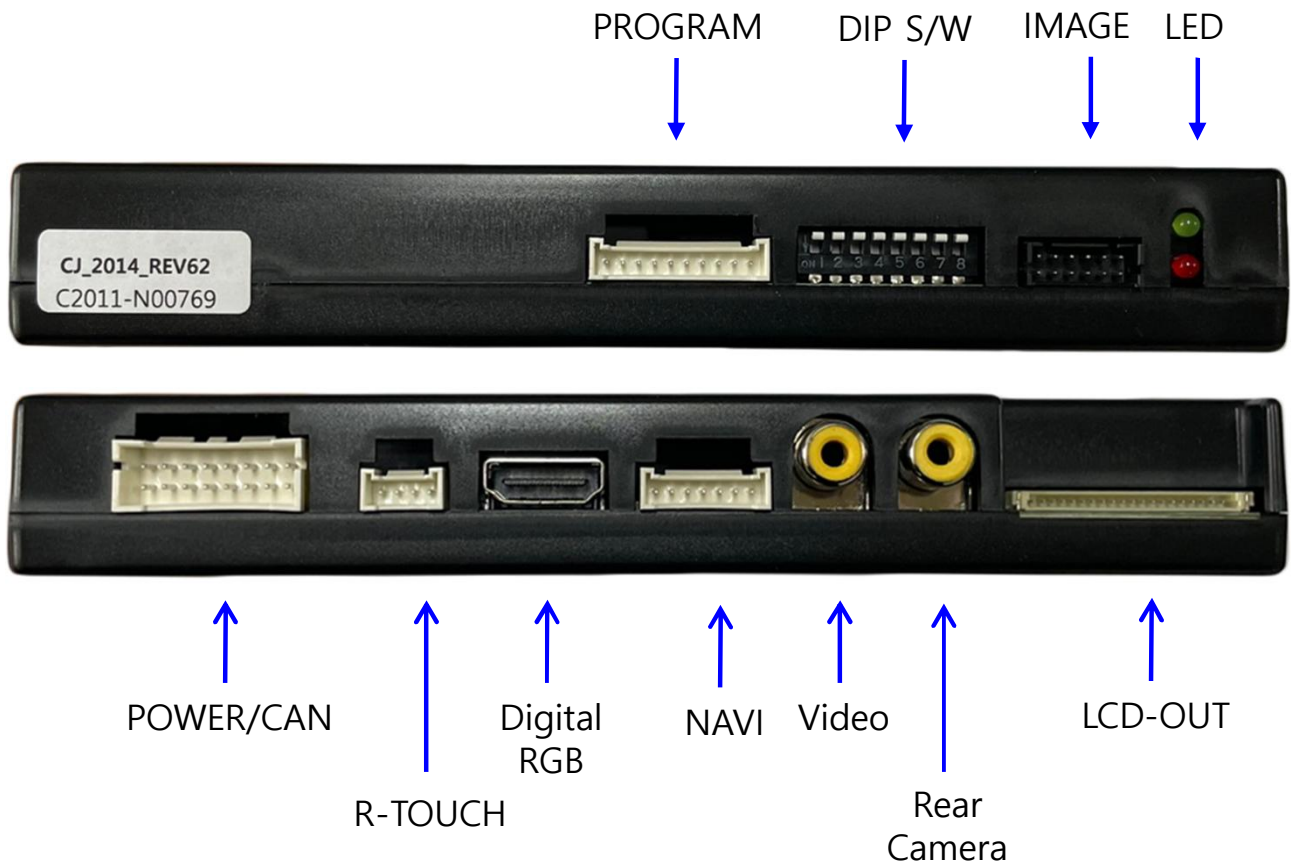


* This can change under manufacturer's circumstance

4. External Appearance



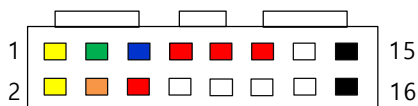
4. External Appearance



5. Connector Pin Assignment

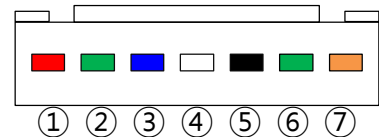


*POWER Connect



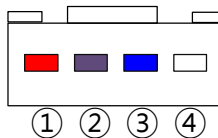
- | | |
|---------------------|--------------------|
| 1. Battery (Yellow) | 9. Front-VCC (Red) |
| 2. Battery (Yellow) | 10. N.C |
| 3. CAN-L (Green) | 11. ACC (Red) |
| 4. CAN-H (Orange) | 12. N.C |
| 5. CAN-L (Blue) | 13. N.C |
| 6. CAN-H (Red) | 14. N.C |
| 7. Rear-VCC (Red) | 15. GND (Black) |
| 8. N.C | 16. GND (Black) |

*NAVI Connect



- | |
|--------------------|
| ① R DATA (Red) |
| ② G DATA (Green) |
| ③ B DATA (Blue) |
| ④ SYNC (White) |
| ⑤ GND (Black) |
| ⑥ DVB-T-IR (Green) |
| ⑦ DVD-IR (Orange) |

*Touch Connect



- | |
|------|
| ① Y- |
| ② X- |
| ③ Y+ |
| ④ X+ |

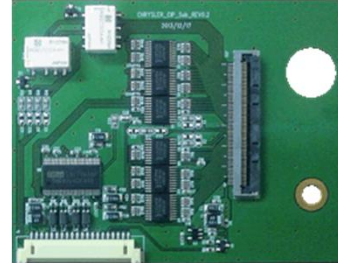
* ACC-power
-> Output Current = Max 0.2A(200mA)



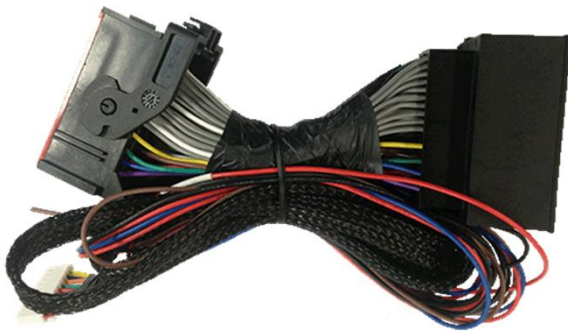
6. Product Composition



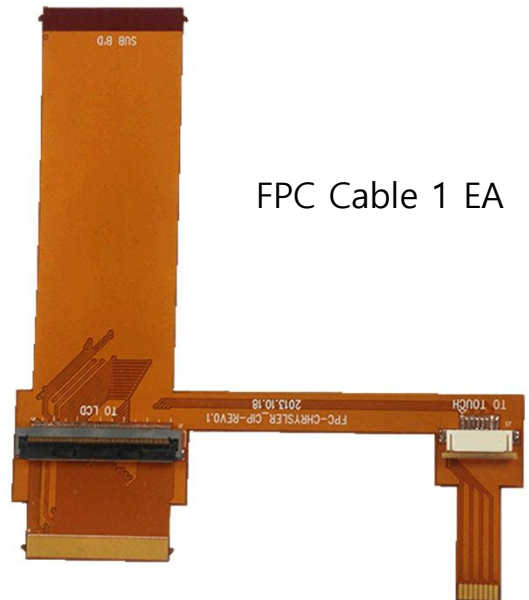
Interface 1 EA



SUB Board 1 EA



Power Cable 1 EA



FPC Cable 1 EA



RGB Navi Cable 1 EA



LVDS Cable(800mm) 1 EA



Touch 변환 Cable(KD-900) 1 EA



OSD Board 1 EA

6. Product Composition

* CarPlay Set Sales(option) – KPLAY



Interface 1 EA



AUX Cable 1 EA



Power Cable 1 EA



HDMI Cable 1 EA



Bluetooth / Wifi Antenna 2EA



Microphone 1 EA



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6. Product Composition

* CarPlay(NV17) Set Sales(option)



CarPlay Main 1 EA



AUX Cable 1 EA



Power Cable 1 EA



HDMI Cable 1 EA



Microphone 1 EA



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7. DIP S/W Setting

* ON : DOWN , OFF : UP

PIN	FUNCTION	DIP S/W Selection
1	NAVI	ON : Not Used OFF : Used
2	N.C	
3	N.C	
4	N.C	
5	N.C	
6	N.C	
7	CAR type SEL	Right Picture
8		

* DIP S/W Example



Grand Cherokee (WK) / 2016year 300C



Cherokee (KL)



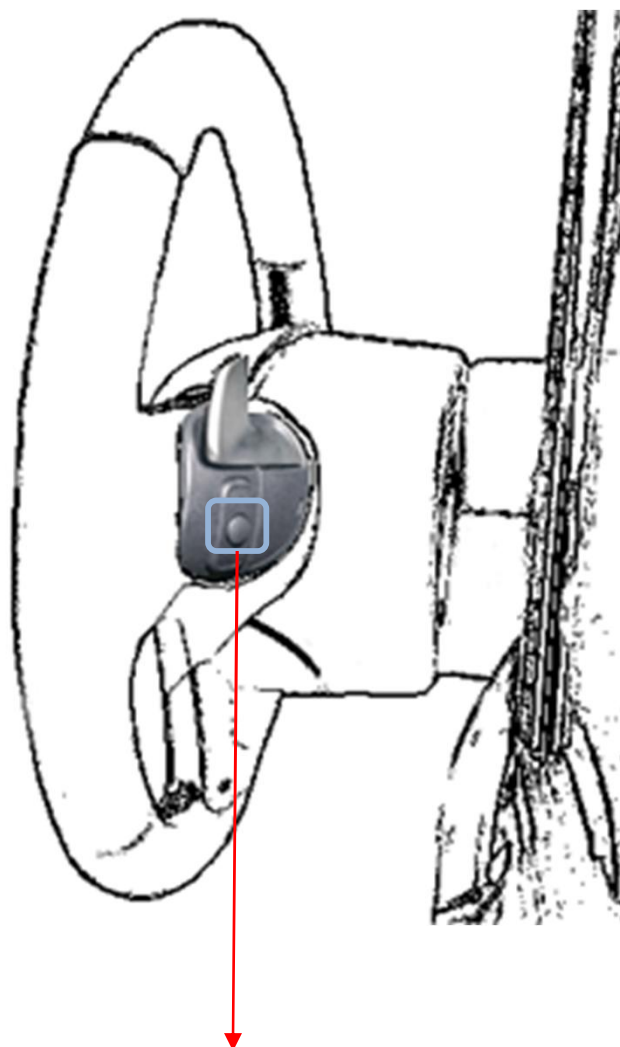
DODGE RAM 2014



DODGE RAM 2015



8. Mode Change



mode change : 1ms press

MENU	Option / Steering Wheel	REAR
Config	FrontCam-Det	ExtWire
Option	AV Out	AV1
Image	Back Button	On
Screen	Steering Wheel	On Off
Parking	Reset	Execute Cancel



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8. Mode Change



mode change : 0.7ms press

MENU	Option / Back Button		REAR
Config	FrontCam-Det	ExtWire	
Option	AV Out	AV1	
Image	Back Button	On	Off
Screen	Steering Wheel	On	
Parking	Reset	Execute	Cancel

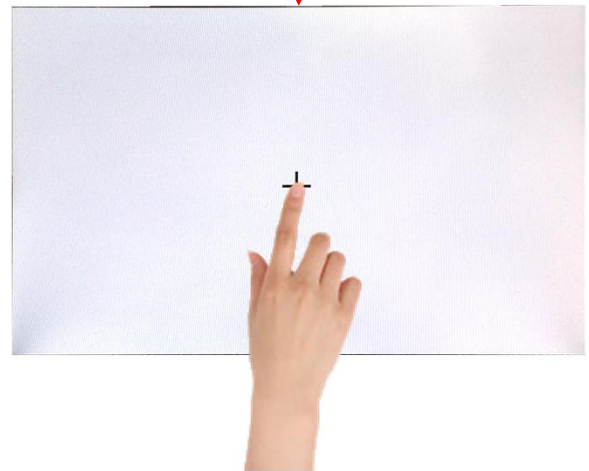


9. Touch Control

Touch control - Calibration

MENU	RearCam-Det		NAVI
OSD	Factory Reset	Execute	Cancel
IR-Ctrl	Calibration	Execute	Cancel
Utility	Version	BEW3100AUX-210518	

OSD menu -> Utility -> Calibration



+ Touch according to the shape coordinates.

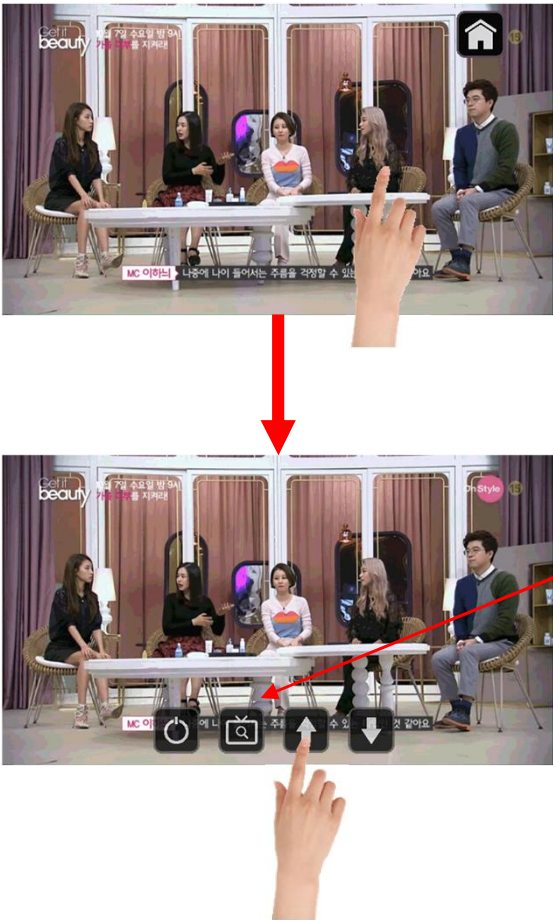


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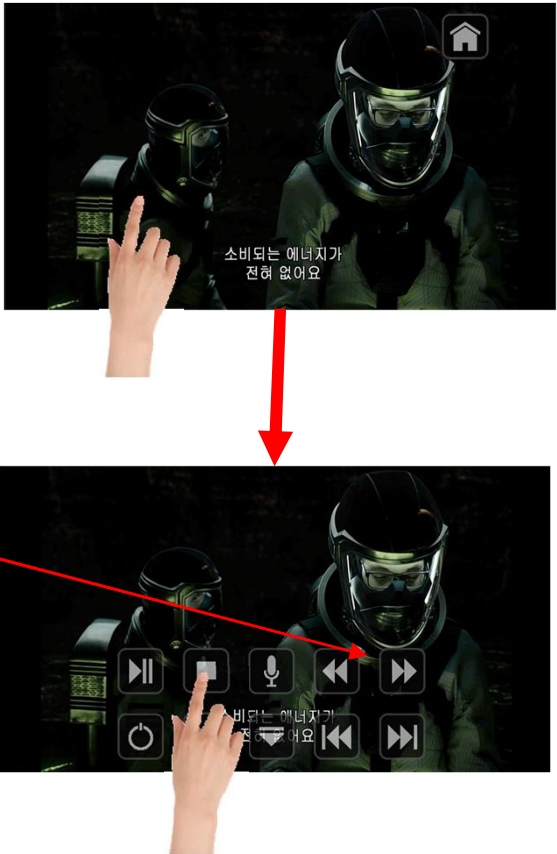
9. Touch Control

DVB-T/DVD Control

DVB-T



DVD



Press Icon

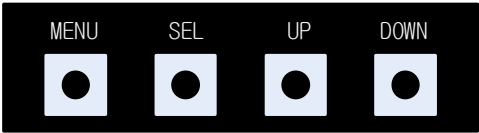
MENU	UI DVB-T(DMB)		NAVI
Config	Mode Button	NAV	
Option	UI DVB-T(DMB)	On	Off
Image	UI DVD	On	
Screen	ScrChg-Btn	On	
Parking	Reset	Execute	Cancel

MENU	UI DVD		NAVI
Config	Mode Button	NAV	
Option	UI DVB-T(DMB)	On	
Image	UI DVD	On	Off
Screen	ScrChg-Btn	On	
Parking	Reset	Execute	Cancel



10. OSD(On Screen Display) Control

OSD control



MENU	Press to display when there is no OSD screen. When OSD screen is on, press it to EXIT or OFF.
SEL	Item Selection, Value Selection
UP	Item up Increase selected value
DOWN	Item down Decrease selected value

Mode State		
MENU	Option	
Config	RearCam-Type	ExtDevice
Option	RearCam-Power	Auto
Image	RearCam-Det	GEAR
Screen	AV Mode	Off
Parking	FrontCam-Type	ExtDevice
First Menu	Second Menu	Third Menu



10. OSD(On Screen Display) Control

OSD - Option Menu

First Menu	Second Menu	Third Menu	Description
Option	NAVI COM	HMS FINE :	To use UART Touch, select a navigation manufacturer.
		OFF	Do not use features.
	RearCam-Type	OEM	Original Camera
		ExtDevice	Equipped with external camera
	RearCam-Power	ON	+ 12V continuous supply
		AUTO	+ 12V supply only in Rear camera mode
		OFF	+ 12V off
	RearCam-Det	GEAR	Detected by CAN
		WIRE	Detected by Rear-Det Wire
	AV Mode	ON	Use "REAR" video input port as VIDEOE input.
		OFF	Do not use features.
	FrontCam-Type	OEM	Original Camera
		ExtDevice	Equipped with external camera
	FrontCam-Power	ON	+ 12V continuous supply
		AUTO	+ 12V supply only in Front camera mode
		OFF	+ 12V off
	FrontCam-Det	GEAR	Detected by CAN
		WIRE	Detected by Front-Det Wire
	FrontCam-RcvOpt	ON	After RearCam shows FrontCam and returns to previous state
		OFF	Disable feature



10. OSD(On Screen Display) Control

OSD - Option Menu

First Menu	Second Menu	Third Menu	Description
Option	Back Button	ON	Switching screen by using "BACK" button
		OFF	Disable feature
	SteeringWheel Btn	ON	Switching screen by using Steering wheel button
		OFF	Do not use features.
	UI DVB-T (DMB)	ON	DVB-T device control UI output function
		OFF	Disable feature
	UI DVD	ON	DVD device control UI output function
		OFF	Disable feature
	Reset	Execute	Option Menu all Reset



10. OSD(On Screen Display) Control

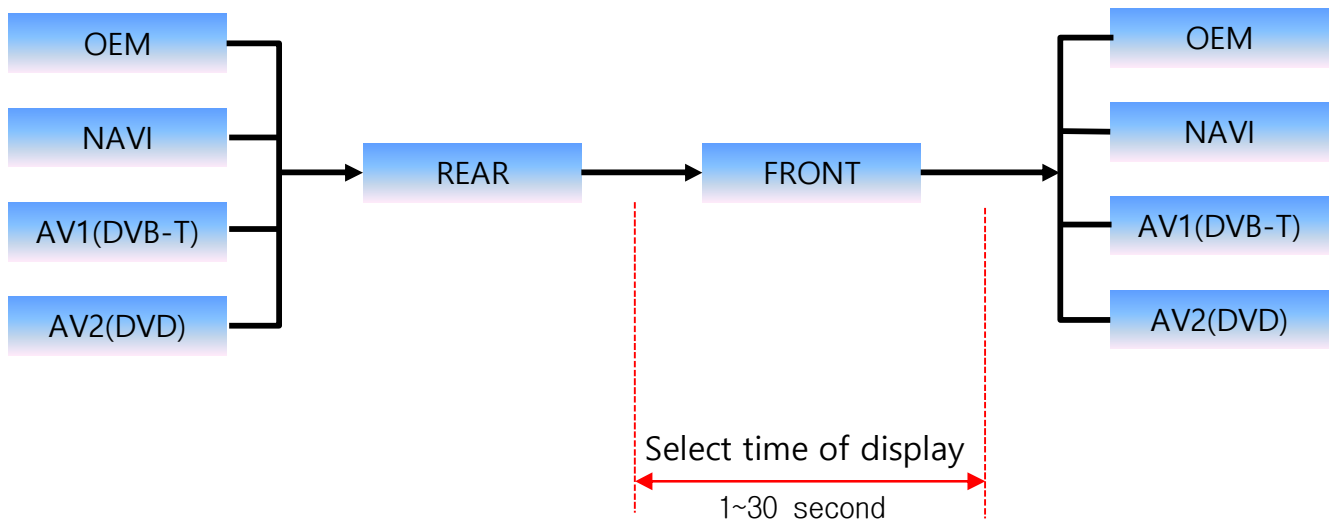
OSD Option -> FrontCam-RcvOpt

Front Camera Auto Mode

0 second = FrontCam-RcvOpt menu OFF
1~30 second = FrontCam-RcvOpt menu ON & time control

MENU	FrontCam-RcvOpt NAVI	
Config	FrontCam-Power	Auto
Option	FrontCam-Det	ExtWire
Image	FrontCam-RcvOpt	0s
Screen	Steering Wheel	Voice
Parking	Reset	Execute Cancel

MENU	FrontCam-RcvOpt NAVI	
Config	FrontCam-Power	Auto
Option	FrontCam-Det	ExtWire
Image	FrontCam-RcvOpt	30s
Screen	Steering Wheel	Voice
Parking	Reset	Execute Cancel



10. OSD(On Screen Display) Control

Front Camera Manual Mode



10. OSD(On Screen Display) Control

NAVI-RGB menu

First Menu	Second Menu	Third Menu	Action
Image	Brightness		Adjust the value of brightness
	Contrast		Adjust the value of contrast
	Color-RED		Adjust the value of RED
	Color-GREEN		Adjust the value of GREEN
	Color-BLUE		Adjust the value of BLUE
	Reset	Excute	Option Menu all Reset

DVD,DVB-T(DMB),NAVI-AV,REAR,FRONT menu

First Menu	Second Menu	Third Menu	Action
Image	Brightness		Adjust the value of brightness
	Contrast		Adjust the value of contrast
	Saturation		Adjust the value of Saturation
	Hue		Adjust the value of Hue
	Sharpness		Adjust the value of Sharpness
	Reset	Excute	Option Menu all Reset



< < Brightness > >



< < Contrast > >



< < Saturation > >



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10. OSD(On Screen Display) Control

OSD – Screen Menu

First Menu	Second Menu	Third Menu	Description
Screen	Horizontal		Output screen horizontal movement
	Vertical		Output screen vertical movement
	Scale X Up		Reduce / increase output screen width
	Scale X Down		
	Scale Y Up		Reduce / Increase Output Screen Height
	Scale Y Down		
	Reset		Screen menu all reset

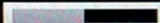
MENU	Horizontal	NAVI
Config	Horizontal	50
Option	Vertical	50
Image	Scale X Up	50
Screen	Scale X Down	50
Parking	Scale Y Up	50



10. OSD(On Screen Display) Control

OSD – Parking Menu

First Menu	Second Menu	Third Menu	Description
Parking	Line Display	ON	Show Parking lines(Not moving).
		OFF	Do not show parking lines
	Warnings Lang		Set warning text language
	Horizontal		Moving a parking line horizontally
	Vertical		Moving a parking line vertically
	Transparency		Parking line transparency
	Reset		Parking menu all reset

MENU	Parking / Line Display REAR	
Config	Line Display	On Off
Option	PDC Display	On
Image	Grid Type	Split
Screen	Warnings Lang	English
Parking	Horizontal	 50



10. OSD(On Screen Display) Control

OSD Parking – Change warning language

MENU	Parking / Warnings Lang	REAR
Config	OPS Display	English
Option	Line Display	中文
Image	Warnings Lang	한국어
Screen	Horizontal	台灣
Parking	Vertical	Р о с с и я

English

Check entire surroundings!

中文

请注意车辆周围环境!

한국어

차량 주변을 전부 확인

台灣

請注意車輛周圍環境!

Р о с с и я

Следите за всем окружением автомобиля!

日本

周辺の安全を確認



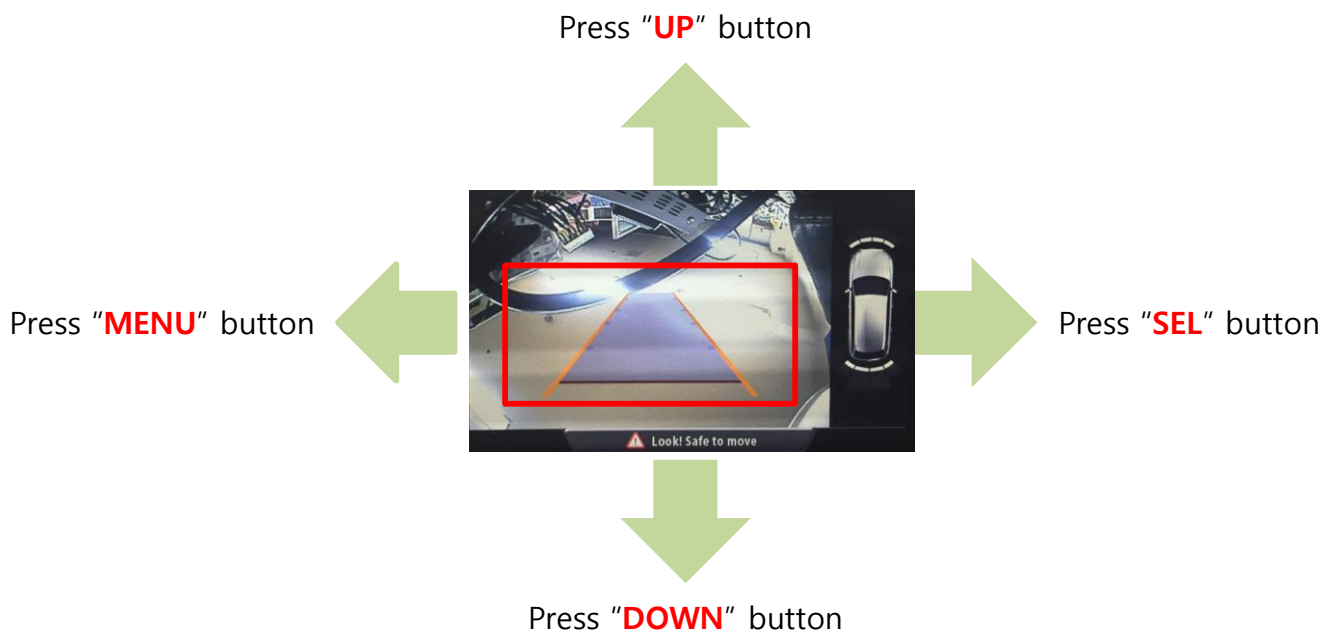
10. OSD(On Screen Display) Control

OSD Parking – Adjust position of parking guide line

MENU	Parking		REAR
Config	OPS Display	Off	
Option	Line Display	On	
Image	Warnings Lang	English	
Screen	Horizontal	50	
Parking	Vertical	50	

Possible to adjust the position of parking guide line
by Keypad in Horizontal / Vertical menu

※ Pressing this Horizontal / Vertical menu,
The OSD screen automatically disappears.
Please adjust from the parking line Screen.



10. OSD(On Screen Display) Control

OSD – OSD Menu

First Menu	Second Menu	Third Menu	Description
OSD	Horizontal	<i>value</i>	OSD Menu Horizontal Shift
	Vertical	<i>value</i>	OSD menu vertical Shift
	Display Time	<i>value</i>	OSD Menu Display Time (in seconds)
	Transparency	<i>value</i>	OSD menu transparency
	Language		OSD menu display language
	Reset	Execute	Initialize OSD settings

MENU	Horizontal DVB-T	
OSD	Horizontal	50
IR-Ctrl	Vertical	50
Utility	Display Time	10s
	Transparency	30
	Language	English

MENU	Reset DVB-T	
OSD	Reset	Execute Cancel
IR-Ctrl		
Utility		



10. OSD(On Screen Display) Control

OSD – IR learning function



* In order to work with the IR learning function, a separate IR cable is required.

MENU	IR-Ctrl / DVB-T(DMB)	NAVI
OSD	DVB-T(DMB)	Sel Learn Cancel
IR-Ctrl	DVD	Sys
Utility		

1. In DVB-T / DVD menu, select User in Sys (OSD list) or User (learned contents).
2. Select Learn from the OSD menu.



MENU	IR-Ctrl / DVB-T(DMB)	NAVI
OSD	All-Clear	
IR-Ctrl	POWER	-----
Utility	SCAN	-----
	CH+	-----
	CH-	-----

3. Before using IR learning function, select All-Clear to delete existing stored data.



MENU	IR-Ctrl / DVB-T(DMB)	DVB-T
OSD	New Code: -----	
IR-Ctrl	Cfm Code: -----	
Utility		
	Save	Clr Cancel

4. Press the remote control button to be used in each ICON once in New Code, press once again in Cfm Code to confirm it is the same and save it.

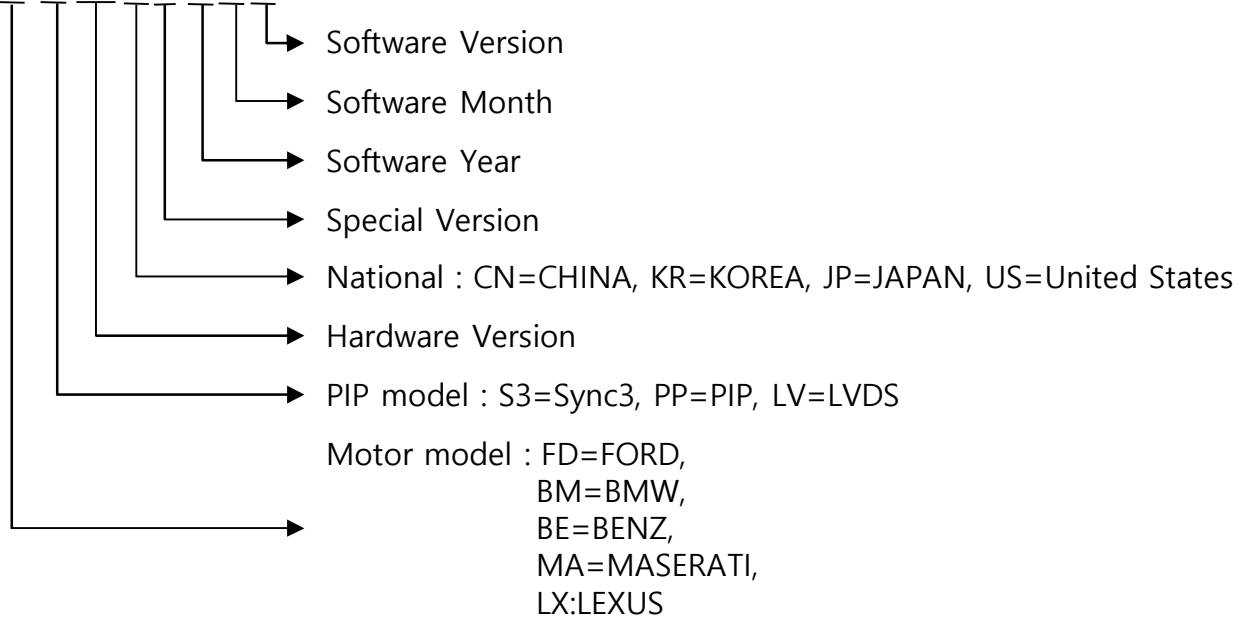


10. OSD(On Screen Display) Control

OSD – Utility Menu

First Menu	Second Menu	Third Menu	Description
Utility	Factory Reset	Execute	Initialize all settings
	Calibration	Execute	Calibration mode Execute
	Version		FDSYOOKRX-180209 (Check for future upgrades)

Last Source : FDSYOOKRX-180209

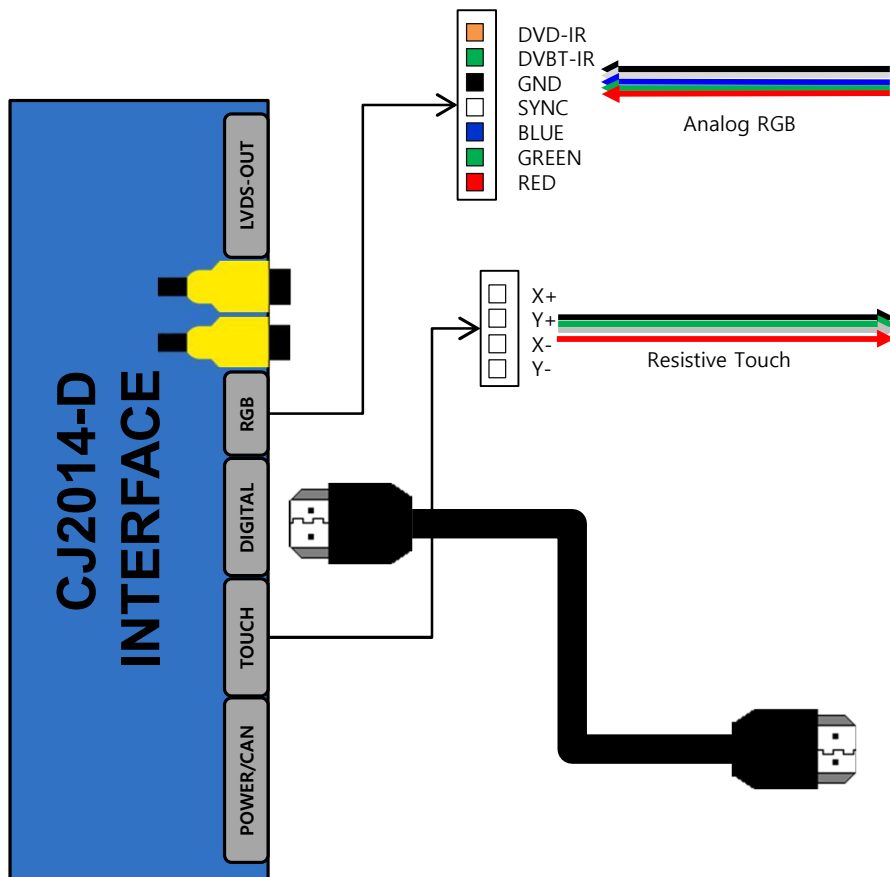


MENU	Utility	NAVI
OSD	Factory Reset	Execute Cancel
IR-Ctrl	Version	FDSYOOKRX-180209
Utility		



11. Install Manual

1. Installation Navigation Connection



*Analog RGBsync navigation



KD-900

*Digital navigation



Roik, Qroi

MENU	NAVI-RGB	NAVI
Config	NAVI-RGB	DIGITAL-G-NOM-A
Option	DVB-T(DMB)	DIGITAL-G-NOM-G
Image	DVD	DRGB-M2C-1920
Screen	RearCam	DIGITAL-KPLAY
Parking	FrontCam	DRGB-KPLAY-1280

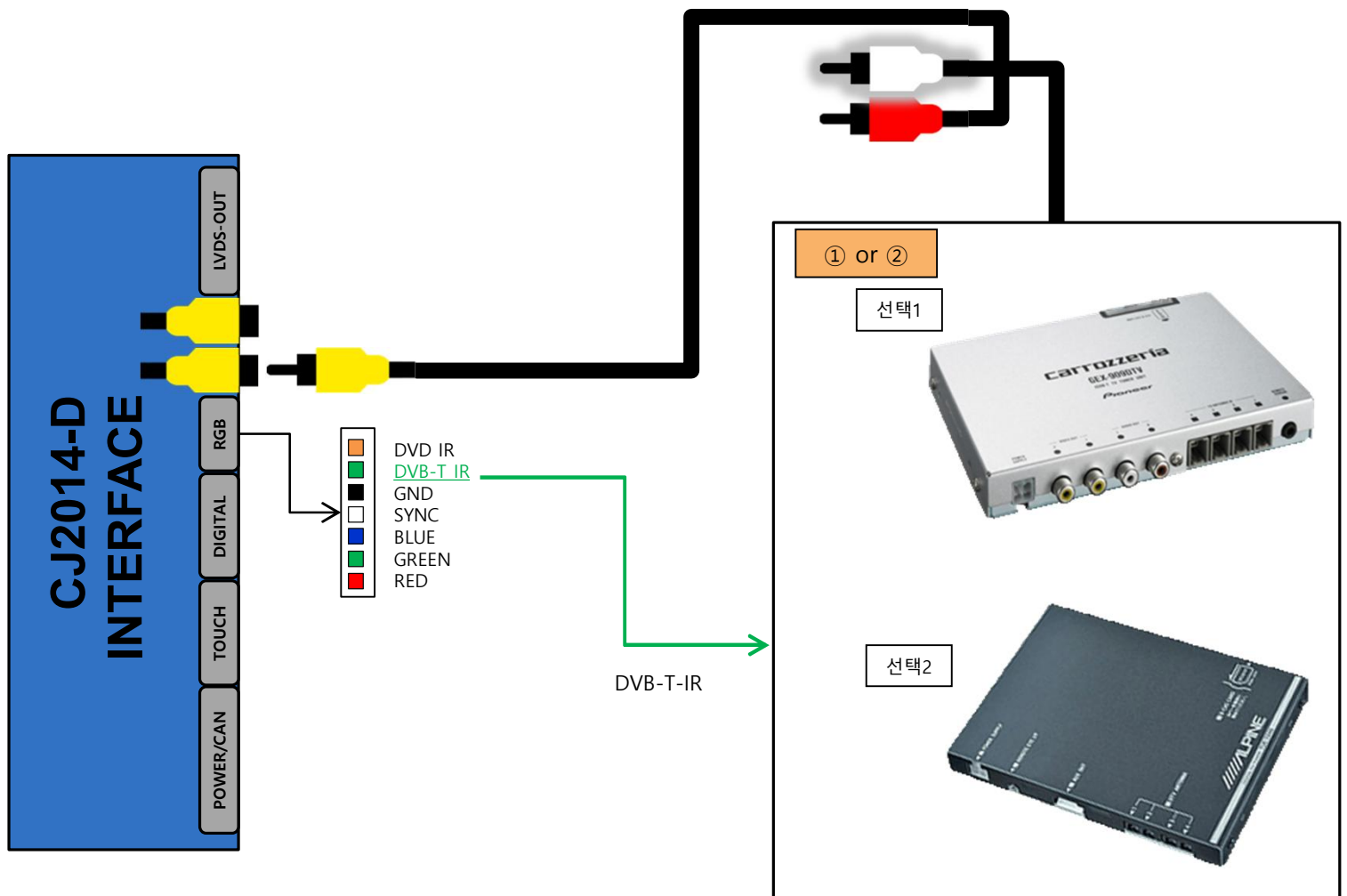
- Select the navigation you want to use from the above items.



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11. Install Manual

2. Installation DVB-T Remote Control Connection



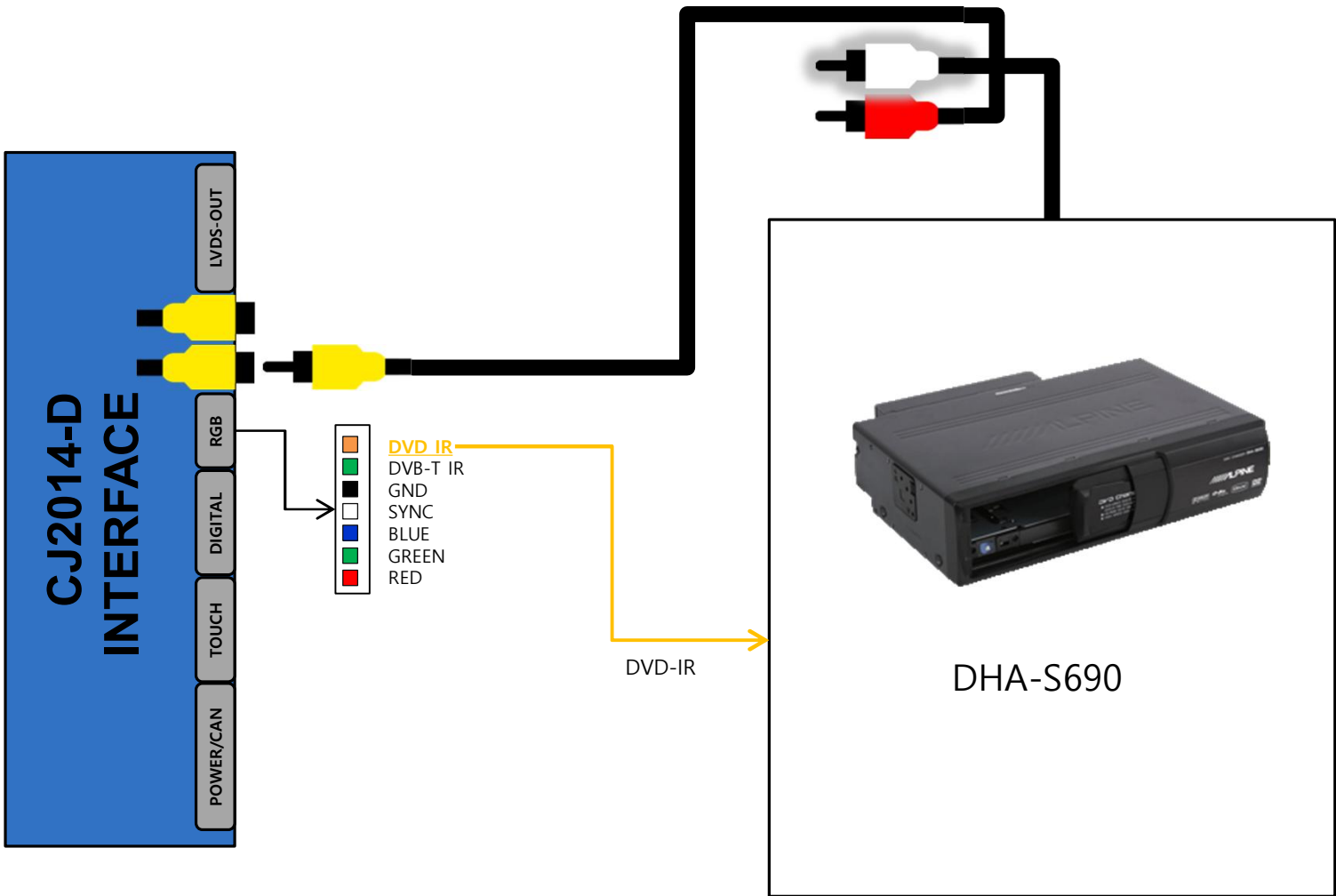
MENU	DVB-T(IMB)	DVB-T
Config	NAVI-RGB	ELT_DVBT20
Option	DVB-T(IMB)	NET-770
Image	DVD	MediaLife
Screen	RearCam	Panasonic
Parking	FrontCam	Pioneer

MENU	UI DVB-T(IMB)	DVB-T
Config	FrontCam-Type	ExtDevice
Option	FrontCam-RcvOpt	8s
Image	SteeringWheelBtn	Off
Screen	UI DVB-T(IMB)	On Off
Parking	UI DVD	On

- Select the DVB-T you want to use from the above items.

11. Install Manual

3. Installation DVD Remote Control Connection



MENU	DVD	DVD
Config	NAVI-RGB	ELT-980XU Slim
Option	DVB-T(DMB)	LCKT
Image	DVD	Sanyo
Screen	RearCam	NECVOX DVA-3206
Parking	FrontCam	AMPIRE DVX-101

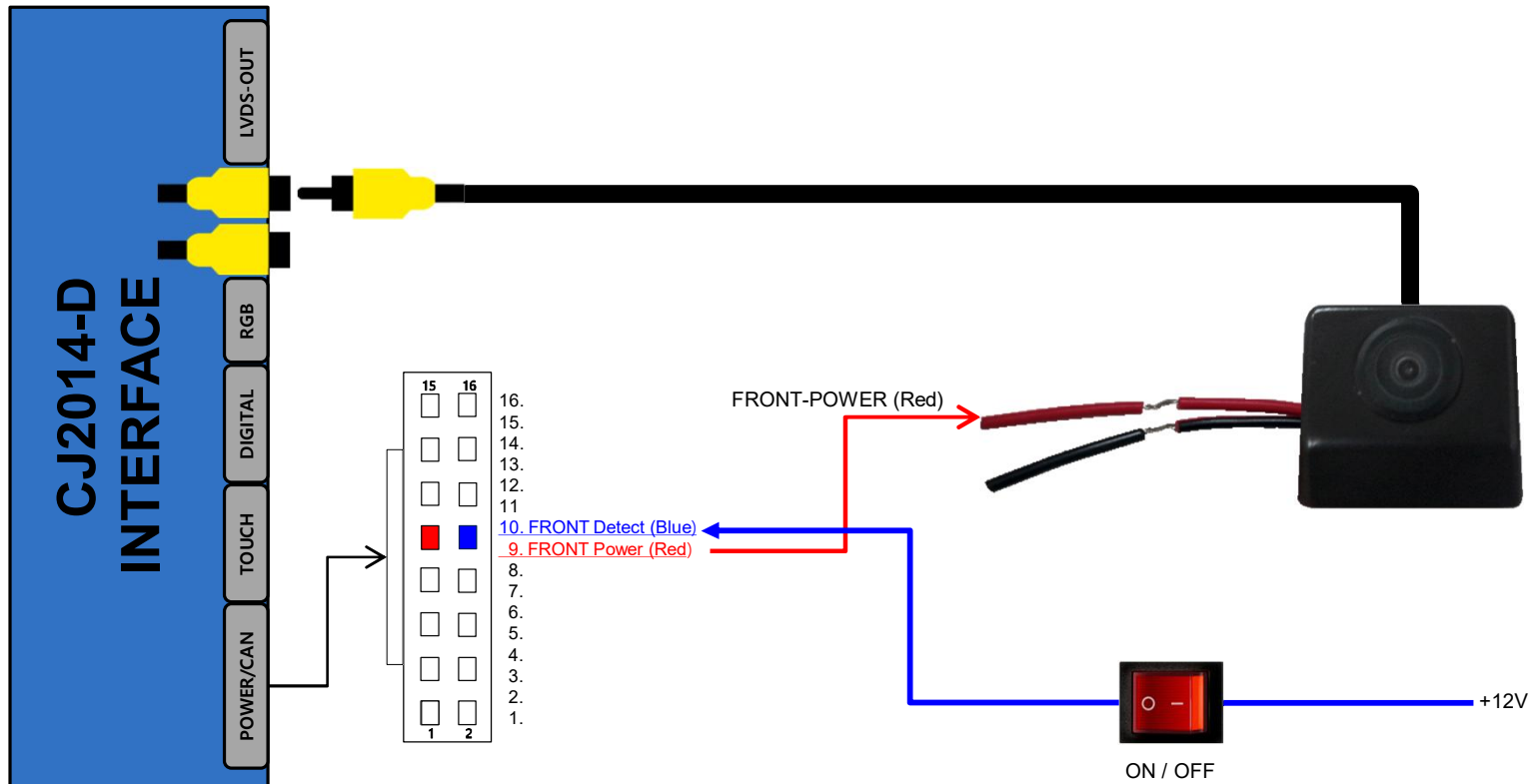
MENU	UI DVD	DVD
Config	FrontCam-Type	ExtDevice
Option	FrontCam-RcvOpt	8s
Image	SteeringWheelBtn	Off
Screen	UI DVB-T(DMB)	On
Parking	UI DVD	On Off

- Select the DVD you want to use from the above items.



11. Install Manual

4. Installation External Front Camera Connection



MENU	FrontCam	AV
Config	NAVI-RGB	AVM-VIDEO
Option	DVB-T(DMB)	AVM-DIGITAL
Image	DVD	Default
Screen	RearCam	
Parking	FrontCam	

MENU	FrontCam-RcvOpt	AV
Config	FrontCam-Type	ExtDevice
Option	FrontCam-RcvOpt	8s
Image	SteeringWheelBtn	Off
Screen	UI DVB-T(DMB)	On
Parking	UI DVD	On

- Refer to page. 10. OSD (On Screen Display) Control -> OSD option -> FrontCam-RcvOpt.

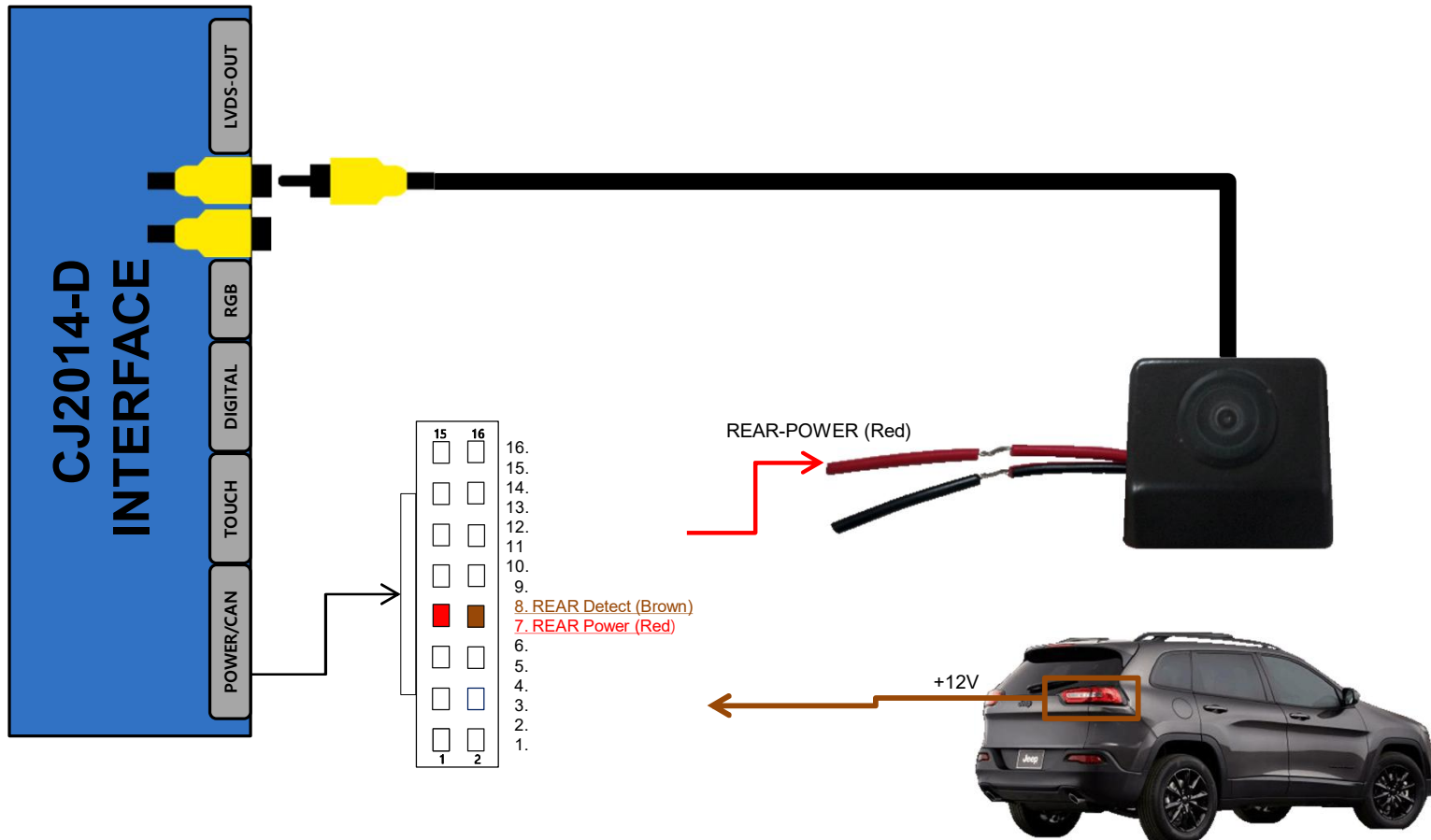
MENU	AV Mode	NAVI
Config	NAVI COM	KPLAY
Option	RearCam-Type	OEM
Image	RearCam-Power	Auto
Screen	RearCam-Det	CAN
Parking	AV Mode	On Off

- When AV mode is activated, the Front camera can be viewed using the Mode change button..



11. Install Manual

5. Installation External Reverse(Rear) Camera Connection



MENU	RearCam		REAR
Config	NAVI-RGB	AVM-VIDEO	
Option	DVB-T(DMB)	AVM-DIGITAL	
Image	DVD	Default	
Screen	RearCam		
Parking	FrontCam		

- Select the RearCam you want to use from the above items.

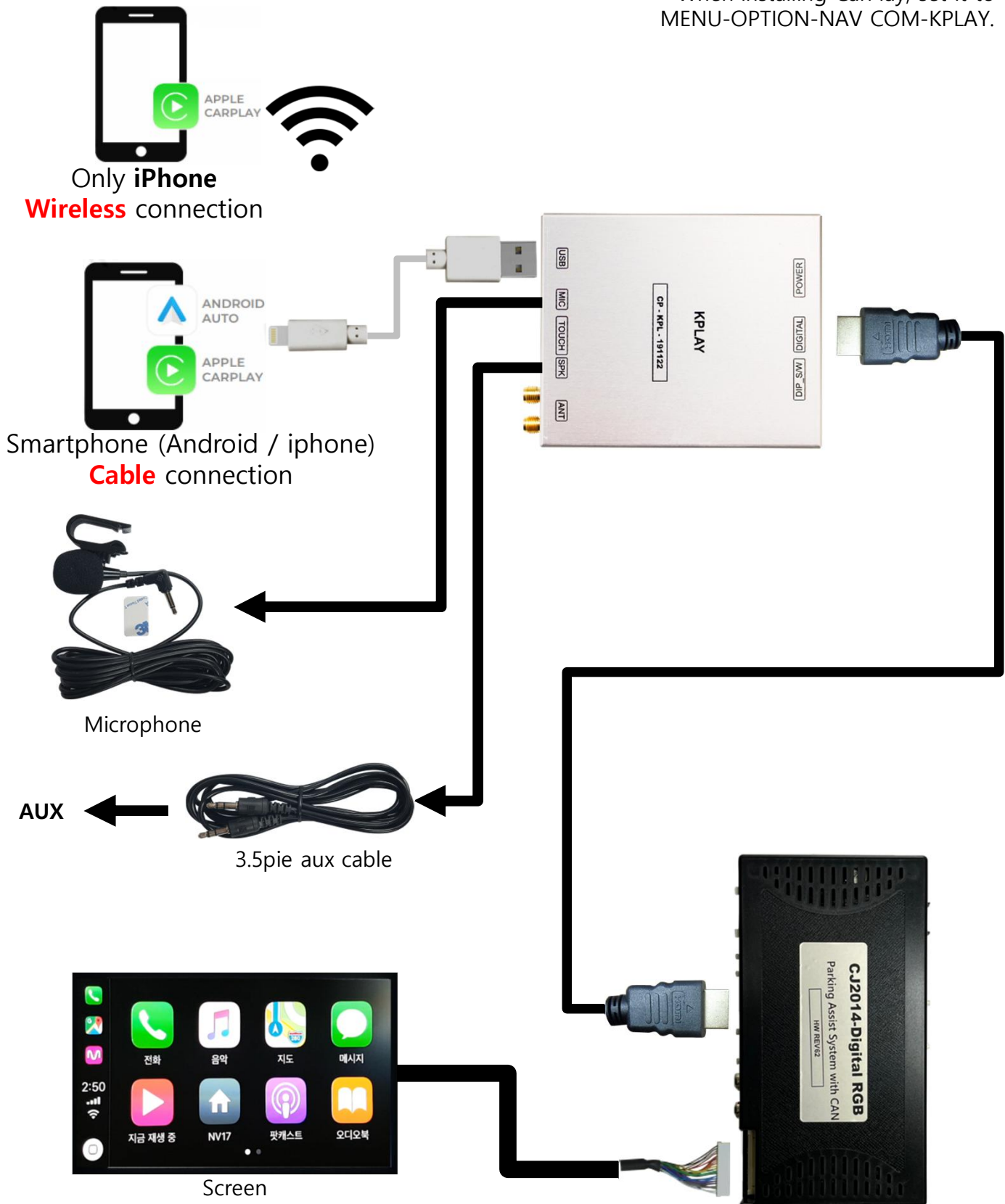


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11. Install Manual

6. Installation CarPlay - KPLAY

* When installing CarPlay, set it to OSD MENU-OPTION-NAV COM-KPLAY.

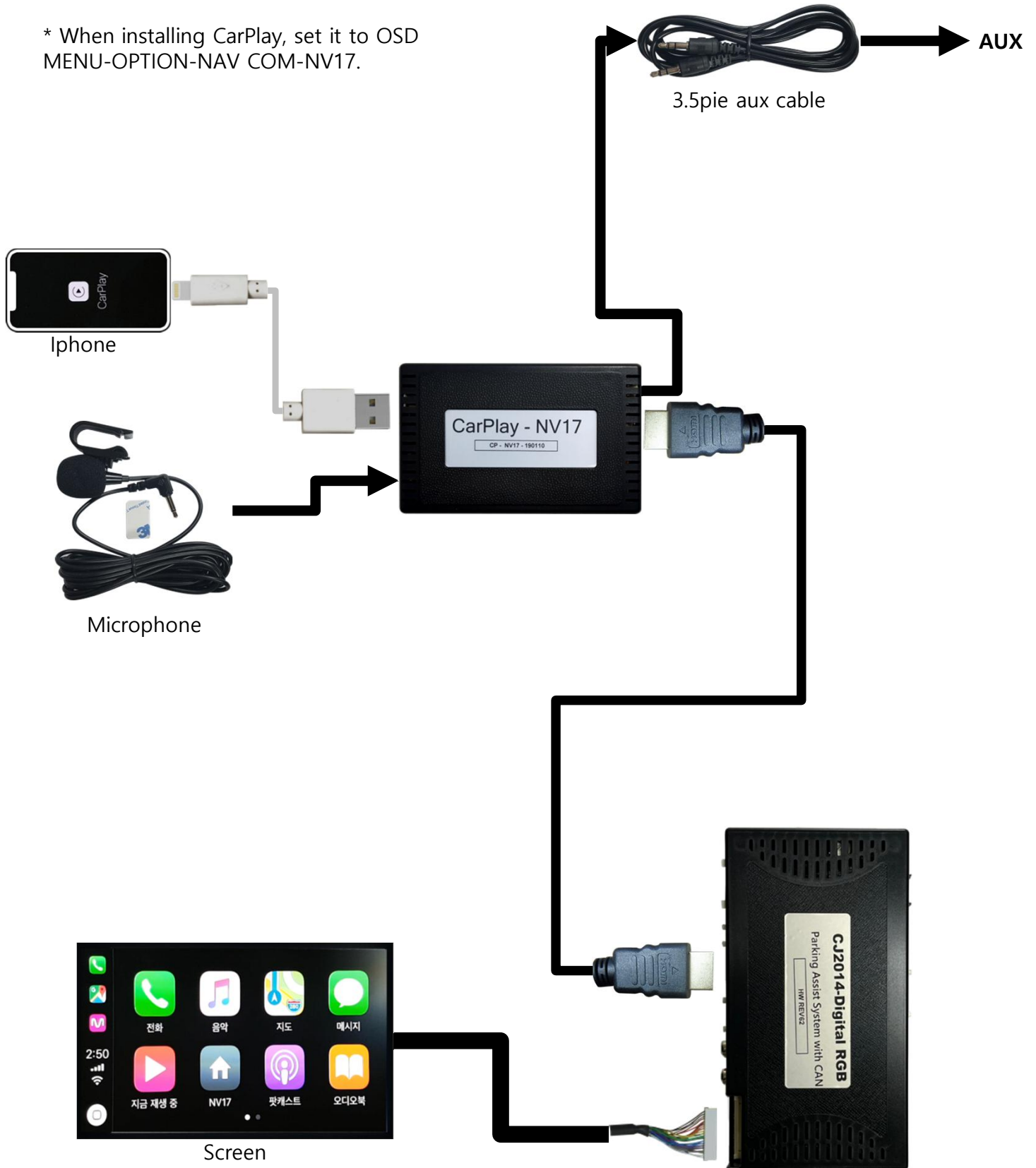


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11. Install Manual

5. Installation CarPlay – NV17

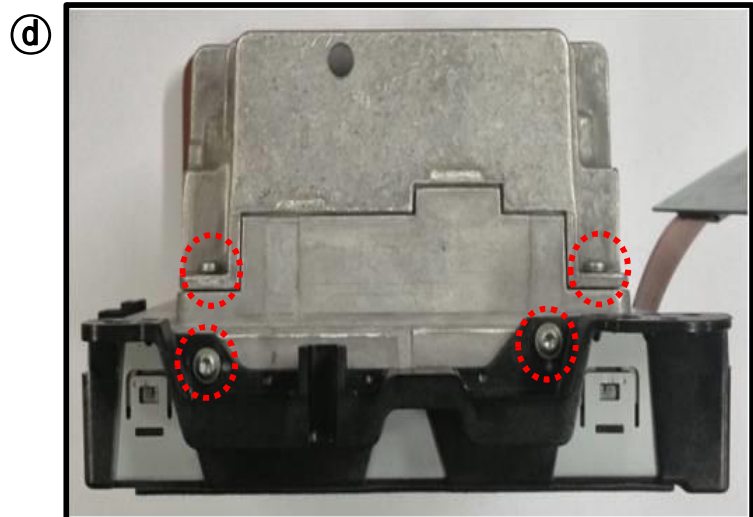
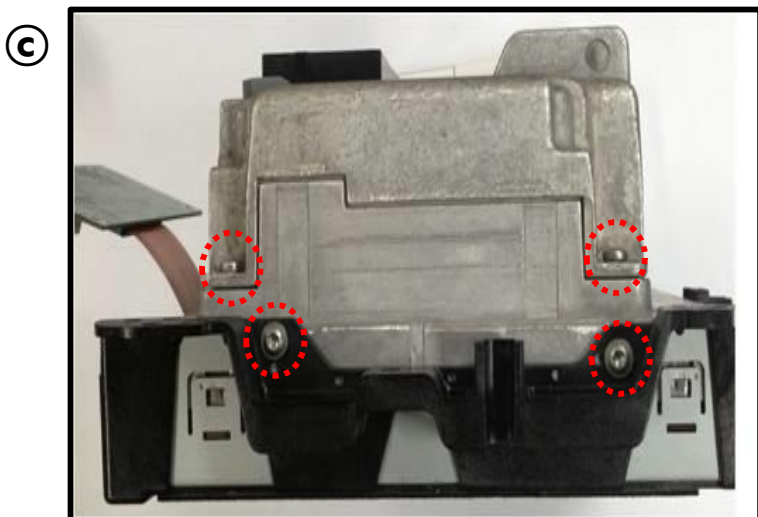
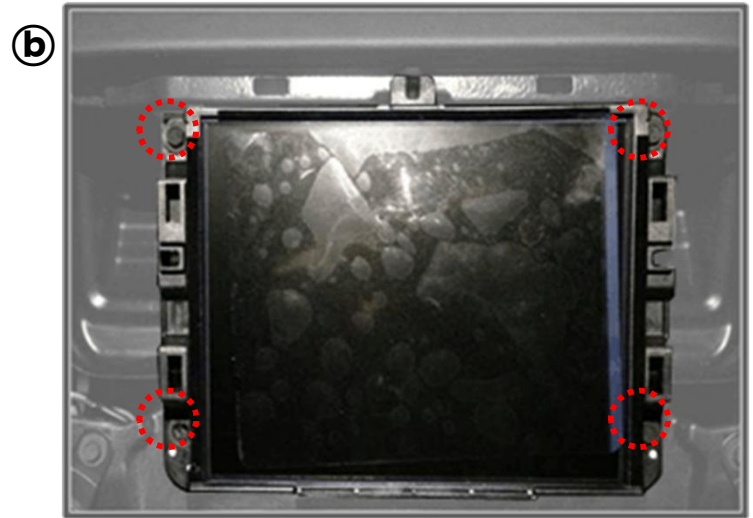
* When installing CarPlay, set it to OSD MENU-OPTION-NAV COM-NV17.



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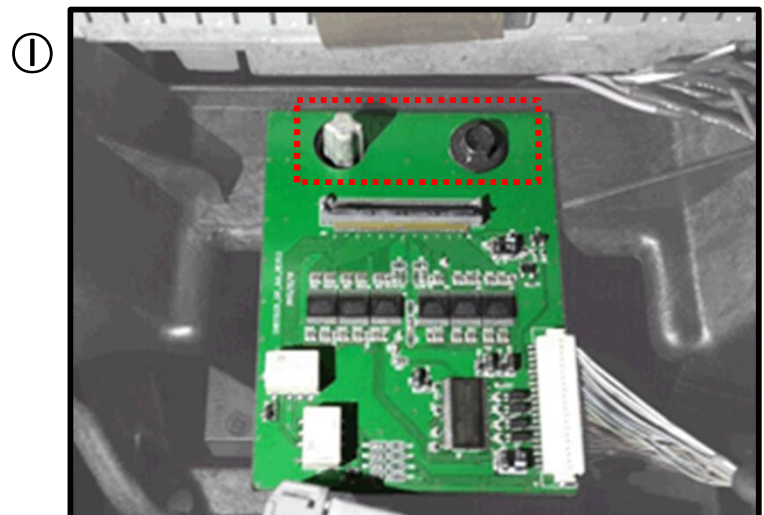
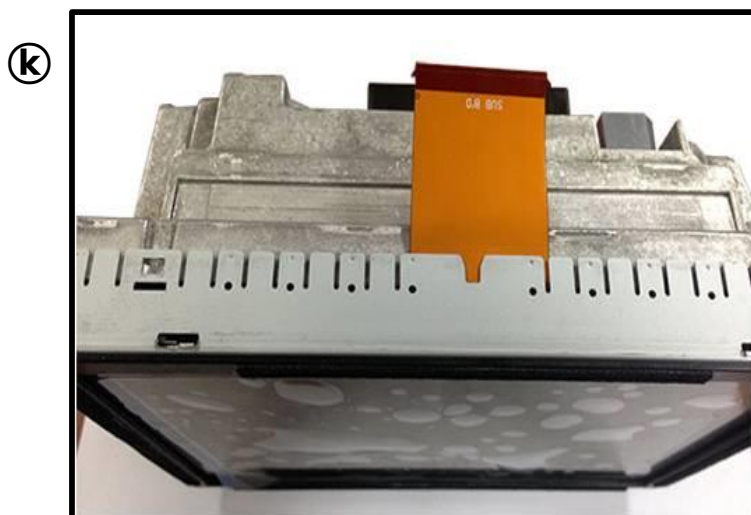
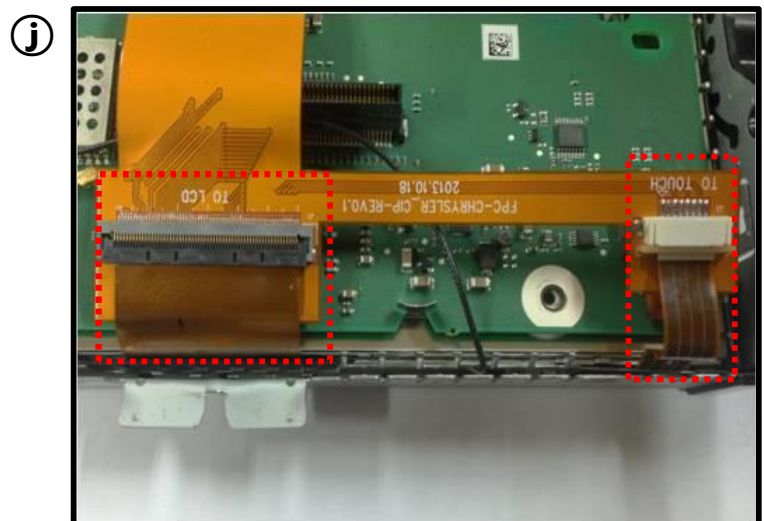
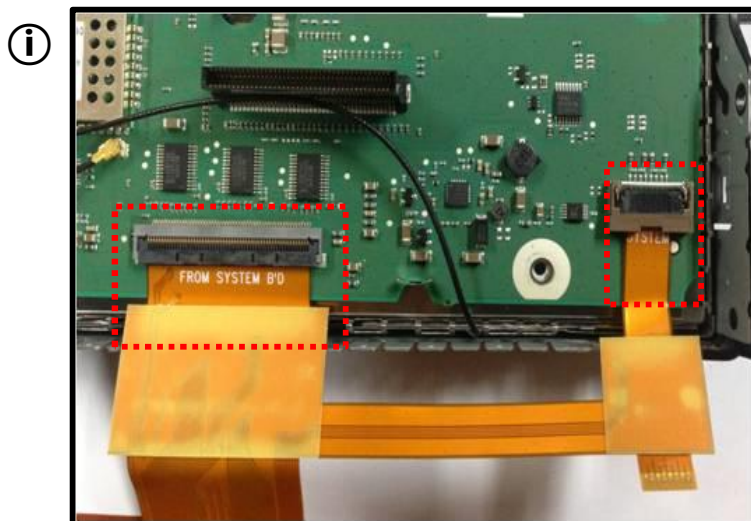
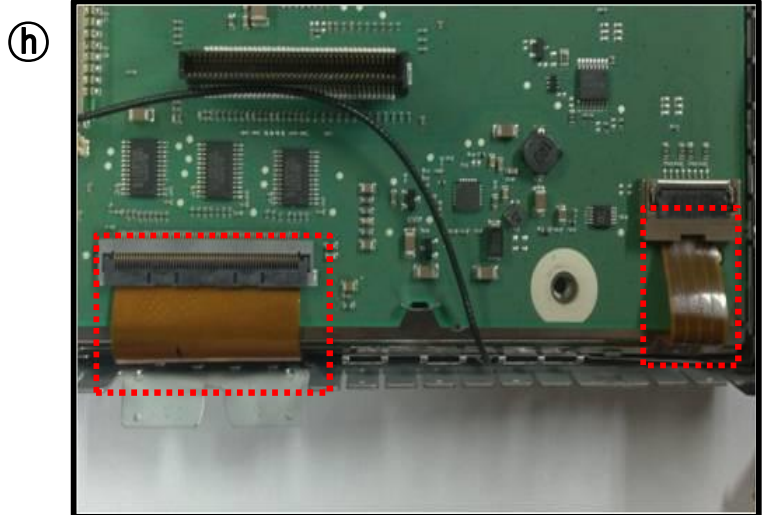
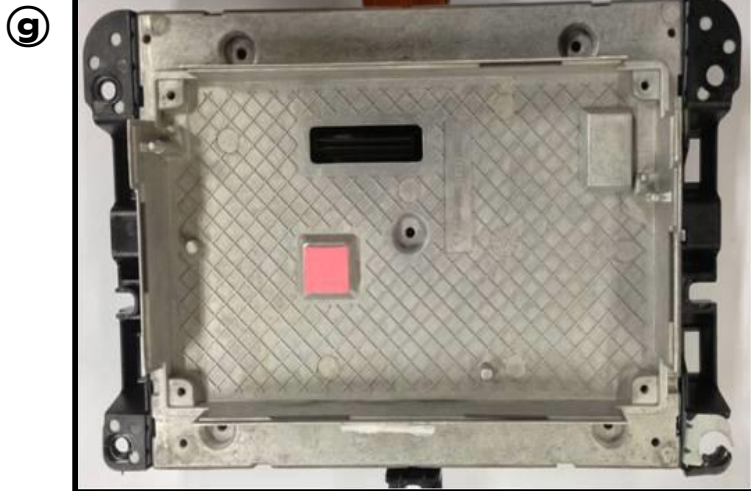
9. Install Manual

6. Installation



9. Install Manual

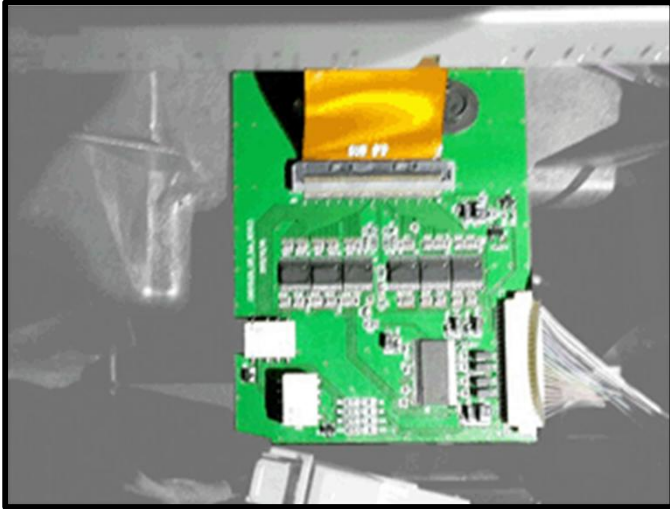
6. Installation



11. Install Manual

6. Installation

③



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12. Q & A

FAQ

1. Not possible to switch mode
 - Check connection of OSD Key pad wire
 - Check CAN connection
2. Display wrong size of picture
 - Check Dip s/w setting
3. Display black screen in OEM mode
 - Check connection of LVDS/LCD cable
4. Not possible to switch to rear screen
 - Check the packing setting (OSD Menu – option – RearCam-Det)

Caution

1. The device must not be installed in where it interferes driving
(close to brake pedal, steering wheel, airbag etc.)
2. LVDS cable must be connected correctly according to the manual
3. Insulate the end of wire by using electrical tape
4. The installation should be done by expert
5. GU electronic does not take any responsibility for any problem caused by wrong installation
6. How to distinguish between CIP model and CTP model.



CTP system : ex) CHRYSLER 300C 2011~2015
DODGE Journey 2011~
FIAT Freemont 2013~
Maserati Quattroporte 2014~2016
Maserati Ghibli 2014~2016



CIP system : ex) 2014 JEEP Grand Cherokee



GU Electronic